

04-07-03

2814

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APR 04 2003

April 4, 2003

Box: Non-Fee Amendment
 Commissioner For Patents
 Washington, D.C. 20231

Re: Applicant(s): Michael R. Krames; Mihail M. Sigalas; Jonathan J. Wierer Jr.
 Assignee: Lumileds Lighting U.S., LLC
 Title: LED Efficiency Using Photonic Crystal Structure
 Serial No.: 10/059,588
 Examiner: Douglas A. Wille
 Docket No.: M-11547 US
 Filed: January 28, 2002
 Group Art Unit: 2814

Dear Sir:

Transmitted herewith are the following documents in the above-identified application:

- (1) This Transmittal Letter (1 page);
- (2) Response to Office Action (24 pages).

- ☒ No additional fee is required.
☐ The fee has been calculated as shown below:

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	Claims Remaining <u>After Amendment</u>		Highest No. Previously <u>Paid For</u>		Present <u>Extra</u>	<u>Rate</u>		Additional <u>Fee</u>
Total Claims	48	Minus	92	=	0	x \$18	\$	0.00
Independent Claims	2	Minus	5	=	0	x \$84	\$	0.00
<input type="checkbox"/>	Fee of _____ for the first filing of one or more multiple dependent claims per application							\$
<input checked="" type="checkbox"/>	Conditional Petition for Extension of Time: If an extension of time is required for timely filing of the enclosed document(s) after all papers filed with this transmittal have been considered, an extension of time is hereby requested.							
<input type="checkbox"/>	Please charge our Deposit Account No. 502226 in the amount of							<u>0.00</u>
<input checked="" type="checkbox"/>	Also, charge any additional fees required and credit any overpayment to our Deposit Account No. 502226.							
Total:							\$	<u>0.00</u>

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EV 342554975 US

Respectfully submitted,

R. Leiterman

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Michael R. Krames; Mihail M. Sigalas; Jonathan J. Wierer Jr.
Assignee: Lumileds Lighting U.S. LLC
Title: LED Efficiency Using Photonic Crystal Structure
Serial No.: 10/059,588 Filing Date: January 28, 2002
Examiner: Douglas A. Wille Group Art Unit: 2814
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San Jose, California
April 4, 2003

COMMISSIONER FOR PATENTS
Washington, D. C. 20231

RESPONSE TO OFFICE ACTION

Dear Sir:

This responds to the Office Action dated January 7, 2003. Please amend the above identified application as follows.

IN THE CLAIMS

Please amend the claims as follows. The following is a clean version of the entire set of pending claims. In accordance with 37 CFR § 1.121(c)(1)(ii), Attachment A provides marked up versions of the claims containing the newly introduced changes.

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1. (Amended) A light emitting diode comprising:
- a first semiconductor layer doped with a first dopant, coupled to a first electrode layer;
 - an active layer overlying said first semiconductor layer, capable of emitting light;
 - a second semiconductor layer doped with a second dopant, overlying said active layer,
 - each first dopant and said second dopant being of opposite type;
 - a second electrode layer on said second semiconductor layer; and

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